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09565192	6816904	150	05/04/2000	NETWORKED VIDEO MULTIMEDIA STORAGE SERVER ENVIRONMENT	LUDWIG, LESTER
09565677	Not Issued	61	05/04/2000	Scalable networked multimedia system and applications	LUDWIG, LESTER
10018441	Not Issued	41	03/04/2002	System and method for browser based multimedia collaboration reporting	LUDWIG, LESTER
10931651	Not Issued	20	08/31/2004	Scalable networked multimedia system and applications	LUDWIG, LESTER
60064266	Not Issued	159	11/04/1997	VIDEO STORAGE SERVER	LUDWIG, LESTER
60647168	Not Issued	20	01/25/2005	Multiple-channel codec and transcoder environment for gateway, MCU, broadcast, and video storage applications	LUDWIG, LESTER
08994848	6237025	150	12/19/1997	MULTIMEDIA COLLABORATION SYSTEM	LUDWIG, LESTER F.
09471577	Not Issued	95	12/23/1999	MULTIMEDIA SERVICES USING CENTRAL OFFICE	LUDWIG, LESTER F.
09601384	Not Issued	41	07/27/2000	Multifunction video communication service device	LUDWIG, LESTER F.
09702737	Not Issued	41	11/01/2000	Participant display and selection in video conference calls	LUDWIG, LESTER F.
09812400	Not Issued	41	03/19/2001	Processing and generation of control signals for real-time control of music signal processing, mixing, video, and lighting	LUDWIG, LESTER F.
09879460	6594688	150	06/11/2001	DEDICATED ECHO CANCELER FOR A WORKSTATION	LUDWIG, LESTER F.
10120307	Not	124	04/09/2002	Marking and searching capabilities	LUDWIG, LESTER

	Issued			in multimedia documents within multimedia collaboration networks	F.
10120559	6789105	150	04/09/2002	MULTIPLE-EDITOR AUTHORING OF MULTIMEDIA DOCUMENTS INCLUDING REAL-TIMEVIDEO AND TIME-INSENSITIVE MEDIA	LUDWIG, LESTER F.
10382553	Not Issued	94	03/04/2003	UTP BASED VIDEO CONFERENCING	LUDWIG, LESTER F.
10382554	Not Issued	30	03/04/2003	Teleconferencing employing multiplexing of video and data conferencing signals	LUDWIG, LESTER F.
10656342	Not Issued	94	09/04/2003	NON-POSITIVE-DEFINITE OPTICAL FILTERING FROM POSITIVE-DEFINITE TRANSFER FUNCTIONS	LUDWIG, LESTER F.
10665439	Not Issued	30	09/18/2003	Relative optical path phase reconstruction in the correction of misfocused images using fractional powers of the fourier transform	LUDWIG, LESTER F.
10676165	Not Issued	30	09/30/2003	Performance environments supporting interactions among performers and self-organizing processes	LUDWIG, LESTER F.
10676249	Not Issued	30	09/30/2003	Multi-channel signal processing for multi-channel musical instruments	LUDWIG, LESTER F.
10676910	6852919	150	09/30/2003	EXTENSIONS AND GENERALIZATIONS OF THE PEDAL STEEL GUITAR	LUDWIG, LESTER F.
10676926	Not Issued	30	09/30/2003	Derivation of control signals from real-time overtone measurements	LUDWIG, LESTER F.
10677032	Not Issued	94	09/30/2003	STRUMPAD AND STRING ARRAY PROCESSING FOR MUSICAL INSTRUMENTS	LUDWIG, LESTER F.
10680591	Not Issued	30	10/06/2003	Generalized electronic music interface	LUDWIG, LESTER F.
10683914	Not Issued	30	10/10/2003	Functional extensions of traditional music keyboards	LUDWIG, LESTER F.
10683915	Not Issued	30	10/10/2003	Controlling and enhancing electronic musical instruments with video	LUDWIG, LESTER F.
10688743	Not Issued	30	10/16/2003	Transcending extensions of classical south asian musical	LUDWIG, LESTER F.

				instruments	
10701683	Not Issued	30	11/04/2003	Transcending extensions of traditional east asian musical instruments	LUDWIG, LESTER F.
10702262	Not Issued	61	11/05/2003	Phase-staggered multi-channel signal panning	LUDWIG, LESTER F.
10702318	Not Issued	30	11/05/2003	Hysteresis waveshaping	LUDWIG, LESTER F.
10702415	Not Issued	30	11/06/2003	Signal processing for twang and resonance	LUDWIG, LESTER F.
10702941	Not Issued	30	11/06/2003	Signal processing for cross-flanged spatialized distortion	LUDWIG, LESTER F.
10703023	Not Issued	30	11/05/2003	Envelope-controlled time and pitch modification	LUDWIG, LESTER F.
10703137	6849795	150	11/05/2003	CONTROLLABLE FREQUENCY-REDUCING CROSS-PRODUCT CHAIN	LUDWIG, LESTER F.
10721343	Not Issued	41	11/26/2003	Method for real-time communication between plural users	LUDWIG, LESTER F.
10721385	Not Issued	41	11/26/2003	System for real-time communication between plural users	LUDWIG, LESTER F.
10721905	Not Issued	41	11/26/2003	Method for real-time communication between plural users	LUDWIG, LESTER F.
10722051	Not Issued	41	11/26/2003	System for real-time communication between plural users	LUDWIG, LESTER F.
10722145	Not Issued	30	11/24/2003	Layered signal processing for individual and group output of multi-channel electronic musical instruments	LUDWIG, LESTER F.
10737042	Not Issued	30	12/15/2003	Modular structures facilitating field-customized floor controllers	LUDWIG, LESTER F.
10737043	Not Issued	30	12/15/2003	Modular structures facilitating aggregated and field-customized musical instruments	LUDWIG, LESTER F.
10737095	Not Issued	41	12/15/2003	Modular structures for interchangeable musical instrument neck arrangements	LUDWIG, LESTER F.
10779368	Not Issued	30	02/13/2004	Electronic document editing employing multiple cursors	LUDWIG, LESTER F.
10806694	Not	20	03/22/2004	Freely rotating trackball providing	LUDWIG, LESTER

	Issued			additional control parameter modalities	F.
10937192	Not Issued	20	09/09/2004	Computing arbitrary fractional powers of a transform operator from selected precomputed fractional powers of the operator	LUDWIG, LESTER F.
10980744	Not Issued	30	11/02/2004	Iterative approximation environments for modeling the evolution of an image propagating through a physical medium in restoration and other applications	LUDWIG, LESTER F.
10997097	Not Issued	30	11/24/2004	Extended parameter-set mouse-based user interface device offering offset, warping, and mixed-reference features	LUDWIG, LESTER F.
10997650	Not Issued	30	11/24/2004	Mouse-based user interface device providing multiple parameters and modalities	LUDWIG, LESTER F.
11004449	Not Issued	30	12/03/2004	Musical instrument lighting for visual performance effects	LUDWIG, LESTER F.
11004746	Not Issued	30	12/03/2004	Controlled light sculptures for visual effects in music performance applications	LUDWIG, LESTER F.

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